

Data Structures

Practical 3

Objective:

WAP to insert an element in particular position in array.

Code:

```
#include<stdio.h>

void main()
{
    int arr[30],i,size,index,value;


    printf("Enter number of elements : ");
    scanf("%d",&size);

    printf("Enter array elements : ");
    for(i=0;i<size;i++)
    {
        scanf("%d",&arr[i]);
    }

    printf("\nArray elements are : \n");
    for(i=0;i<size;i++)
    {
        printf("%d\t",arr[i]);
```

```
}  
  
printf("Enter index and value : ");  
scanf("%d%d",&index,&value);  
  
for(i=size-1;i>=index;i--)  
{  
    arr[i+1] = arr[i];  
}  
arr[index] = value;  
  
printf("\nArray elements after insertion : \n");  
for(i=0;i<=size;i++)  
{  
    printf("%d\t",arr[i]);  
}  
}
```

Output:

 C:\Users\asus\OneDrive\Desktop\Second Semester\DS Practicals\insertatpartpos.exe

Enter number of elements : 4

Enter array elements : 89

52

63

78

Array elements are :

89 52 63 78 Enter index and value : 2

45

Array elements after insertion :

89 52 45 63 78

Process exited after 30.77 seconds with return value 4

Press any key to continue . . . ■